

USSN: 09/770,960
Atty. Docket No.: 10247
Amdt. dated November 22, 2004
Reply to Office Action of August 25, 2004

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A thermoplastic label for use with a cold glue adhesive, comprising:

a. a first skin layer comprising ~~a thermoplastic~~ polypropylene or polyethylene and a first cavitating agent, wherein the first skin layer has a first side and a second side, and the first skin layer is cavitated; ~~and~~

b. a cold glue adhesive on the first side of the first skin layer;

c. a first tie layer comprising polypropylene or polyethylene and a second cavitating agent, wherein the first tie layer has a first side and a second side, the first tie layer is cavitated, and the first side of the first tie layer is adjacent to the second side of the first skin layer;

d. a core layer comprising polypropylene or polyethylene and a third cavitating agent, wherein the core layer has a first side and a second side, the core layer is cavitated, and the first side of the core layer is adjacent to the second side of the first tie layer; and

e. a second skin layer comprising a polyolefin, wherein the second skin layer has a first side and a second side, the second skin layer is not cavitated, and the second skin layer is on the second side of the core layer.

2. (currently amended): The thermoplastic label of claim 1, wherein the ~~thermoplastic is first skin layer comprises~~ polypropylene and ~~wherein the first skin layer has a~~ thickness of at least about 0.3 mil.

3. (currently amended): The thermoplastic label of claim 1, wherein the ~~thermoplastic is first skin layer comprises~~ polyethylene.

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4. (currently amended): The thermoplastic label of claim 2, ~~further comprising: a wherein the core layer comprising comprises polypropylene and a second cavitating agent wherein the core layer has a first side and a second side and the first side of the core layer is adjacent to the second side of the first skin layer.~~

5. (currently amended): The thermoplastic label of ~~claim 2~~ claim 4, further comprising: ~~a wherein the first tie layer comprising comprises polypropylene wherein the tie layer has a first side and a second side and the first side of the tie layer is adjacent to the second side of the first skin layer; and a core layer comprising polypropylene and a second cavitating agent wherein the core layer has a first side and a second side and the first side of the core layer is adjacent to the second side of the tie layer.~~

6. (currently amended): The thermoplastic label of claim 5, wherein the first tie layer has a thickness of at least about 0.3 mil.

7. (currently amended): The thermoplastic label of ~~claim 4~~ further comprising: a claim 5, wherein the second skin layer comprising comprises polypropylene having a first side and a second side wherein the first side of the second skin layer is adjacent to the second side of the core layer.

8. (currently amended): The thermoplastic label of ~~claim 5~~ claim 1, further comprising:

f. a second skin tie layer comprising polypropylene or polyethylene, wherein the second tie layer has having a first side and a second side, the second tie layer is not cavitated, wherein the first side of the second skin tie layer is adjacent to the second side of the core layer, and the second side of the second tie layer is adjacent to the first side of the second skin layer.

9. (currently amended): The thermoplastic label of ~~claim 8~~ claim 1, further comprising:

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a metal layer on the second side of the second skin layer.

10. (currently amended): The thermoplastic label of ~~claim 4~~ claim 1, wherein ~~the core layer is cavitated~~ each of the first skin layer, first tie layer, core layer, and second skin layer comprises polyethylene.

11. (currently amended): The thermoplastic label of claim 1, wherein the first skin layer comprises at least about 15% by weight of the thermoplastic label.

12. (currently amended): The thermoplastic label of claim 1, wherein the first, second, and third cavitating agents ~~is~~ are independently selected from the group consisting of polyamides, polybutylene terephthalate, polyesters, acetals, acrylic resins, nylons, solid preformed glass spheres, hollow preformed glass spheres, metal beads, metal spheres, ceramic spheres, calcium carbonate, cyclic olefin polymers, cyclic olefin copolymers, and mixtures thereof.

13. (currently amended): The thermoplastic label of claim 1, wherein the first cavitating agent comprises calcium carbonate.

14. (currently amended): The thermoplastic label of claim 1, wherein the label has a thickness of from about 3 mils[.] to about 5 mils.

15. (currently amended): The thermoplastic label of claim 1, wherein the label has a thickness of from about 1 mil to about 10 mils.

16. (currently amended): The thermoplastic label of claim 1, wherein the label is biaxially oriented.

17. (currently amended): The thermoplastic label of claim 1, wherein the first cavitating agent comprises at least about 25% by weight of the first skin layer.

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18. (currently amended): The thermoplastic label of claim 1, wherein the first cavitating agent comprises at least about 35% by weight of the first skin layer.

19. (currently amended): The thermoplastic label of claim 1, wherein the first cavitating agent comprises at least about 50% by weight of the first skin layer.

20. (currently amended): The thermoplastic label of claim 1, wherein the ~~thermoplastic is polypropylene and the polypropylene~~ first skin layer comprises homopolymer polypropylene.

21. (currently amended): The thermoplastic label of claim 1, wherein the ~~thermoplastic is polypropylene and the polypropylene~~ first skin layer comprises homopolymer polypropylene and wherein the first cavitating agent comprises at least about 25% by weight of the first skin layer.

22. (currently amended): The thermoplastic label of ~~claim 4~~ claim 8, wherein the ~~second cavitating agent is selected from the group consisting of polyamides, polybutylene terephthalate, polyesters, acetals, acrylic resins, solid preformed glass spheres, hollow preformed glass spheres, metal beads, metal spheres, ceramic spheres, calcium carbonate, cyclic olefin polymers, cyclic olefin copolymers, and mixtures thereof~~ wherein each of the first skin layer, first tie layer, core layer, second tie layer and second skin layer comprises polypropylene.

23. (currently amended): The thermoplastic label of ~~claim 4~~ claim 8, wherein each of the first skin layer, first tie layer, core layer, second tie layer and second skin layer comprises polyethylene.

24-26. (canceled).

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27. (new): A container, comprising the thermoplastic label of claim 1 on a surface of the container, such that the label is adhered to the surface of the container by the cold glue adhesive on the first side of the first skin layer.

28. (new): A container, comprising the thermoplastic label of claim 8 on a surface of the container, such that the label is adhered to the surface of the container by the cold glue adhesive on the first side of the first skin layer.

29. (new): A container, comprising the thermoplastic label of claim 22 on a surface of the container, such that the label is adhered to the surface of the container by the cold glue adhesive on the first side of the first skin layer.